

## **Shop Order**

Carrier Truck Center Inc. 645 Athlone Place Woodstock, ON N4S 7V8 The Municipality of Dysart et al PO Box 389 135 Maple Ave Haliburton, ON K0M 1S0

**Exp. Date:** 08/24/2018

Quote No: Dysart et al, ON-0021

Job/Order No: 20468

**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

10/18/2019				Page 1
PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	
	S	CHANGE ORDER F	1	MTL
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1600		Waterous Pump Warranty - 5 years	1	MTL
00-20-1800	S	Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	
00-20-4500	3	Fire Apparatus Manufacturers' Association Membership	1	MTL
00-20-4300		GENERAL INFORMATION	1	MTL
10-11-0000		Intent E	1	MTL
			_	
10-11-0110	_	Vehicle data recorder included with chassis	1	
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance E	1	MTL
10-11-1500		> ULC Testing - Pumper	1	MTL
		ENG. NOTE:		
		Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100	S	Maximum length - 28' 00" (336")	1	MTL
10-11-2200	S	Maximum height - 9' 06" (114")	1	MTL
10-11-2300		Overall length is less than 30'	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000	S	Manuals - two copies	1	MTL
	_	***Two copies of chassis manuals are required.		
		***Two (2) complete, CLEAR LAMINATED circuit diagrams shall be provided	with	
		the apparatus.		
10-11-3600	S	> Delivery - FOB Fire Department - by CCEV	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
		· · · · · · · · · · · · · · · · · · ·		
10-11-4300	S	Payment Terms - Chassis and Body NET 30	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements	1	MTL
	_	ENG. NOTE:		
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		The main hose bed shall be located over the water tank and be as large	26	
		possible to maximize hose carrying capacity. The main hose bed sl	as	
			IdII	
		accommodate 600' of 4" hose and 300' of 2 1/2" hose.		
		***Additional weight of 300 pounds***		
40.00.000		E. L		
10-20-2000		Equipment carrying capacity - standard ULC Pumper		MTL
		This vehicle is designed to carry the standard ULC miscellaneous equipm		
		load of 2000 pounds for a vehicle with less than 250 cubic feet of compartment	ent	
		space.		

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PART NO	S	DESCRIPTION	QT'		ID
		CHASSIS INFORMATION			MTL
20-11-1000	S	Chassis supplied by Metalfab - International HV607		1	MTL
		46,000 lb GVW 16,000 lb front axle 30,000 lb rear axle			
		211" wheelbase 144" cab to axle			
		Cummins L9 370 hp @ 2000 rpm 2100 no load rpm			
		1250 lb-ft torque @ 1400 rpm			
		Allison 3000 EVS automatic transmission, 325 Amp alternator			
		LH side PTO opening (top opening not required)			
		189 litre fuel tank, left side under cab			
			#		
		1HTWCAZR0BJ391725			
		Steel wheels painted red			
		Power windows with power door locks disabled by Richwil			
		Note: Will need harness' to relocate switch packs from dash to console - N	eed		
		the "New" type switch pack blanks for the MV Series chassis.			
		Order Safety Kit with the chassis (Fire Extinguisher, First Aid kit and Sa	ety		
		Triangles)			
00 44 4500		2042 Envisaion abassis madifications		,	NAT!
20-11-1500	•	2013 Emission chassis modifications			MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required - by CCEV			MTL
20-21-0500		Fluid capacity plate		1	MTL
20-21-0600		Pumping test plate			MTL
20-21-1000		Maximum riders sign - 2 persons		1	MTL
20-21-1500		Seat belt warning labels - 2 door chassis		1	MTL
20-21-1520		Helmet warning label - do not wear helmet		1	MTL
20-21-1560	U	LED Tire pressure indicators		1	
		All indicators shall be directed so as to be visible from the open side of the ti	re.		
		See SOPT #19 in file - truck specific.			
		Will need RW1266-2 180 degree extension for rear wheels.			
00 04 4000		Annender lukennekten Lehel		_	
20-21-1600		Apparatus Information Label		7	MTL
		An information label is provided in the chassis cab, visible to the driver, stating:			
		"When manufactured, this vehicle was:			
		** m high			
		** m long			
		** kg GVW	ot o		
		Changes in height since the apparatus was manufactured shall be noted on this pl	ale		
		by the Fire Department"			
20-21-2000		Non removable key		1	MTL
20-21-2500		Shifter lock not required E		1	MTL
20-21-3500		Rear step warning label		1	MTL
20-21-3810		Front mudflaps provided with chassis E		1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo		1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only		1	MTL
<b>20-31-0500</b>		Alum tread fuel tank trim, Conv - 2 door		1	MTL
20-31-0300		Vertical trim only, OEM cab steps remain		,	WIL
		v Gradar anni diny, d'Envi dad steps remain			
20-31-1900	S	Chassis cab painted single color by chassis OEM		1	MTL
20-31-1900	J	Color is 2303 red to match existing chassis with serial # 1HTWCAZR0BJ3917	25	′	WIL
		Ociol 13 2000 fed to match existing chassis with serial # 101 WCAZRUDJ351/			
20-31-7500	S	Console in cab		1	MTL
20-31-7300	3	Install pump shift (30-51-0400) in console.		•	WIL
		Console will have designated area for 2-way radio installatio and siren cont	role		
		(50-11-14AA). The panel shall be bolted in place for easy access to the sw			
		connections.	1011		
		Console will include a storage area for placement of procedure binder,	two		
		portable radios and vehicle manuals.	. ****		
		Gray Zolatone finish.			
		A single cutout for the Carrier supplied Motorola XPR radio DIN mount	that		
		arrived 03.07.2019 is required, the Customer will install a 2nd radio mod			
		inside the console and does not require a cutout.	uie		
		The layout of the console will require a cutout.			
		The emrgency light panel will stay on the International Chassis dash as	no.		
		e-mail approval received 06.24.2019 from Rod Harris.	hei		
		o man approvar received vo.24.2013 from Nou Hallis.			

MTL   20-41-100	10/18/2019				Page 3
Auxiliary braking system disabled when pumping   1	PART NO	S	DESCRIPTION	QTY	ID
Auxiliary braking system disabled when pumping   1 MTL	20-41-0600	S	Intake air shutoff for engine not requested	1	MTL
Transmission programming - Allison WT  "Includes "Pump Engaged" light next to pump shift on chassis instrument panel.  Extend exhaust pipe - RS front of rear wheels E Engineering to sign of nor the exhaust configuration to make sure it meets the chassis manufacturer.  Engineering to sign of nor the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.  20-41-1801 20-41-2000 Chassis batteries remain in OEM location Fuel fill at step fuel tank under cab 20-41-2600 Chassis fuel tank remains in OEM location Fuel fill at step fuel tank under cab 20-41-5010 Chassis fuel tank remains in OEM location Fuel fill at step fuel tank under cab 20-41-5010 Chassis fuel tank remains in OEM location Fuel fill at step fuel tank under cab 20-51-2000 Chassis fuel tank remains in OEM location Fuel fill at step fuel tank under cab 20-51-2010 Saction Master Battery Disconnect included with chassis Factor on Hooks - through rear of body E Fuel fill at the fuel tank under cab Back up alarm included with chassis Factor on board compressor provided Fuel fill at fuel fuel fill at fuel fill at fuel fill at fuel fill at fuel fuel fill at fuel fil	20-41-0900		Auxiliary braking system disabled when pumping		
20-41-1500 Extend exhaust pipe - RS front of rear wheels E Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications on specifications.  20-41-1801 Battery boost terminals not required - batteries accessible 1 MTL Chassis batteries remain in OEM location 1 MTL Chassis batteries remain in OEM location 1 MTL Chassis fuel tank remains in OEM location 1 MTL Chassis fuel tank remains in OEM location 1 MTL Chassis fuel tank remains in OEM location 1 MTL Chassis fuel tank remains in OEM location 1 MTL Chassis fuel tank remains in OEM location 1 MTL Chassis fuel tank remains in OEM location 1 MTL Chassis fuel tank remains in OEM location 1 MTL Chassis 1 MTL			Transmission programming - Allison WT	1	
Extend exhaust pipe - RS front of rear wheels E Engineering to sign of for the exhaust configuration to make sure it meets the chassis manufacturer. Engineering to sign of for the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.  20-41-1801 20-41-2001 Chassis batteries remain in OEM location 1 MTL 20-41-2010 Chassis the tank remains in OEM location 1 MTL 20-41-5010 Chassis the tank remains in OEM location 1 MTL 20-41-5010 Chassis the tank remains in OEM location 20-41-5010 Rear Tow Hooks - through rear of body E 1 MTL 20-51-0700 Master Battery Disconnect included with chassis 1 MTL 20-51-300 Sack up alarm included with chassis 1 MTL 20-51-300 Sack up alarm included with chassis 1 MTL 20-51-3400 20-51-6200 S > 120 volt 20 A shore line connection ENG, NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner 20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #847 in file - truck specific 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure 1 MTL 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure 20-51-8500 S Electric System Management through Diamond Logic 20-51-9110 Air horms on hood, chassis OEM switch controlled E PIN 1880701 Hadley 24.5° chrome air horns  Chassis wheelbase does not change 20-60-0400 Chassis steering wheel lined up by others ENG. NOTE: Required for 120 v - 20 A with sealed enclosure 1 MTL 20-69-05AA U Prover bar for transformer type plugs - 120 volt in L4 compartment 1 power bar (FIN 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-05AA U Provix Heated B/U camera w/ 7" screen					
Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.  20-41-2000 Chassis batteries remain in OEM location 1 MTL 20-41-2010 Chassis batteries remain in OEM location 20-41-2610 Chassis fuel tank remains in OEM location 1 MTL 20-41-5010 Rear Tow Hooks - through rear of body E 1 MTL 20-41-5010 Rear Tow Hooks - through rear of body E 1 MTL 20-51-3000 Master Battery Disconnect included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-62-62-6200 Solve a pain included with chassis 1 MTL 20-62-62-6200 Chassis pain included with chassis 1 MTL 20-62-62-62000 Chassis pain included with chassis 1 MTL 20-62-62-6200 Chas			includes 1 drip Engaged light floot to pump shift on chassis institution pariet.		
Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.  20-41-2000 Chassis batteries remain in OEM location 1 MTL 20-41-2010 Chassis batteries remain in OEM location 20-41-2610 Chassis fuel tank remains in OEM location 1 MTL 20-41-5010 Rear Tow Hooks - through rear of body E 1 MTL 20-41-5010 Rear Tow Hooks - through rear of body E 1 MTL 20-51-3000 Master Battery Disconnect included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-3000 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-51-6200 Solve a pain included with chassis 1 MTL 20-62-62-6200 Solve a pain included with chassis 1 MTL 20-62-62-6200 Chassis pain included with chassis 1 MTL 20-62-62-62000 Chassis pain included with chassis 1 MTL 20-62-62-6200 Chas	20 41 1500		Extend exhaust nine PS front of rear wheels E	1	MITI
Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.  20-41-28001 20-41-28001 20-41-28010 20-41-28010 20-41-28010 20-41-28010 20-41-28010 Chassis batteries remain in OEM location 20-41-5910 20-41-28010 20-41-5910 Chassis fuel tank remains in OEM location 1 MTL Rear Tow Hooks - through rear of body E 1 MTL 20-51-2800 20-51-3900 20-51-3900 Sake up alarm included with chassis 3 MTL 20-51-3900 20-51-3100 S Air inlet not requested On board compressor provided 20-51-3400 Protection valve installed for air operated accessories 1 MTL 20-51-6200 S > 120 volt 20 A shore line connection ENG, NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner 20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor 20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor See SOPT #647 in file - truck specific 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure 20-51-8500 S Engine compartment plighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E PIN 1580701 Hadley 24.5 PIN 1580701 Hadley 24.5 POWer bar for transformer type plugs - 120 volt in L4 compartment suitable for chasting bar for transformer type plugs - 120 volt in L4 compartment suitable for charging batteries on small tolos and radios. Power bar for transformer type plugs - 120 volt in L4 compartment suitable for charging batteries ens on small tolos and radios. Power bar for transformer type plugs - 120 volt in L4 compartment suitable for charging batteries ens on small tolos and radios. Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries eso ns mall tolos and radios.	20-41-1300				IVIIL
### Battery boost terminals not required - batteries accessible 20-41-1801 20-41-2510 20-41-2510 20-41-2510 20-41-2510 20-41-2510 20-41-2610 Chassis batteries remain in OEM location 1 MTL 20-41-5010 Rear Tow Hooks - through rear of body E 1 MTL 20-41-5010  #### Battery Disconnect included with chassis 20-51-3700 Back up alarm included with chassis Back up alarm included with chassis 1 MTL 20-51-3100 S Air inlet not requested On board compressor provided Protection valve installed for air operated accessories 1 MTL 20-51-6200 S > 120 volt 20 A shore line connection ENG, NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner 20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display, Note: Auto drain is provided with the Rusmaul compressor See SOPT #547 in file - truck specific  20-51-7500 S Electric System Management through Diamond Logic 20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E PiN 1580701 Hadley 24.5" chrome air horns  20-60-0400 Chassis steering wheel lined up by others ENG, NOTE: Required for all chassis except Freightliner, Sterling, Spartan  1 MTL 20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment suitable for charging batteries on small tools and radios. Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios. Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios.					
20-41-1801				SSIS	
MTL			manufacturer's emission specifications.		
MTL					
20-41-2500 Chassis batteries remain in OEM location 20-41-2500 Fuel fill at step fuel tank under cab 20-41-2500 Chassis fuel tank remains in OEM location 20-41-5010 Rear Tow Hooks - through rear of body E 30-51-2500 Back up alarm included with chassis 20-51-2500 Back up alarm included with chassis 30-51-3100 S Air inlet not requested 30-51-3100 Chassis fuel installed for air operated accessories 31 MTL 30-51-3400 Protection valve installed for air operated accessories 31 MTL 30-51-3400 Protection valve installed for air operated accessories 31 MTL 30-51-6200 S > 120 volt 20 A shore line connection 31 ENG. NOTE: 32 Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet 30 One for battery conditioner in cab 31 One in rear left side compartment - for power bar (20-99-05AA) in the top corner 32 Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display. 32 Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 in file: truck specific 30-51-7701 S Electric System Management through Diamond Logic 30-51-7701 S Super Auto eject for 120 v - 20 A with sealed enclosure 40-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure 40-51-7500 S Engine compartment lighting - LED 41 One LED light to light up complete engine compartment. 42 Switched with park brake. 43 Air horns on hood, chassis OEM switch controlled E 44 PN 1580701 Hadley 24.5" chrome air horns 45 Chassis steering wheel lined up by others 46 ENG. NOTE: 47 Required for all chassis except Freightliner, Sterling, Spartan 57 Chassis wheelbase does not change 58 Extend air tank moisture ejectors to rubrail and tag 59 Chassis wheelbase does not change 59 Chassis wheelbase does not change 50 Chassis wheelbase does not change 50 Chassis wheelbase does not change 51 MTL 51 MTL 52 MTL 53 MTL 54 MTL 55 MTL 56 MTL 57 MTL 58	20-41-1801		Battery boost terminals not required - batteries accessible	1	MTL
20-41-5010 Chassis fuel tank remains in OEM location Rear Tow Hooks - through rear of body E "** Flat bar tow hooks under rear step (2)  20-51-2000 Master Battery Disconnect included with chassis Back up alarm included with chassis 1 MTL 20-51-3100 S Air inlet not requested On board compressor provided  20-51-3400 Protection valve installed for air operated accessories 1 MTL 20-51-6200 S > 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L.1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 finile - truck specific  20-51-7700 S Electric System Management through Diamond Logic 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure 1 MTL 20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E PIN 1580701 Hadley 24.5" chrome air horns  20-52-3000 Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  Chassis wheelbase does not change 20-90-0840 U Power bar for transformer type plugs - 120 volt in L4 compartment 1 power bar is mounted in the top corner of the L4 compartment 1 power bar is mounted in the top corner of the L4 compartment 1 power bar is mounted in the top corner of the L4 compartment 20-99-05AA U Provix Heated B/U camera w/ 7" screen	20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-5010 Chassis fuel tank remains in OEM location Rear Tow Hooks - through rear of body E "** Flat bar tow hooks under rear step (2)  20-51-2000 Master Battery Disconnect included with chassis Back up alarm included with chassis 1 MTL 20-51-3100 S Air inlet not requested On board compressor provided  20-51-3400 Protection valve installed for air operated accessories 1 MTL 20-51-6200 S > 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L.1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 finile - truck specific  20-51-7700 S Electric System Management through Diamond Logic 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure 1 MTL 20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E PIN 1580701 Hadley 24.5" chrome air horns  20-52-3000 Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  Chassis wheelbase does not change 20-90-0840 U Power bar for transformer type plugs - 120 volt in L4 compartment 1 power bar is mounted in the top corner of the L4 compartment 1 power bar is mounted in the top corner of the L4 compartment 1 power bar is mounted in the top corner of the L4 compartment 20-99-05AA U Provix Heated B/U camera w/ 7" screen	20-41-2510		Fuel fill at step fuel tank under cab	1	MTL
1 MTL				1	
### Flat bar tow hooks under rear step (2)  20-51-0700  20-51-2500  Back up alarm included with chassis 20-51-3100  Ari inlet not requested On board compressor provided  Protection valve installed for air operated accessories 1 MTL 20-51-6200  Protection valve installed for air operated accessories 1 MTL 20-51-6200  Protection valve installed for air operated accessories 1 MTL 20-51-6200  Protection valve installed for air operated accessories 1 MTL 20-51-6200  Protection valve installed for air operated accessories 1 MTL 20-51-6200  Protection valve installed for air operated accessories 1 MTL 20-51-6200  Protection valve installed for air operated accessories 1 MTL 20-51-6200  Protection valve installed for air operated accessories 1 MTL 20-51-6500 For installed for air operated accessories 1 MTL 20-51-6500 For installed for air operated accessories 20-51-70-21-5500 for location of the decempant of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 in file - truck specific  20-51-7700  Super Auto eject for 120 v - 20 A with sealed enclosure 20-51-7800  Electric System Management through Diamond Logic 20-51-8500  Super Auto eject for 120 v - 20 A with sealed enclosure 1 MTL 20-51-8500  Prin 1580701  Air horns on hood, chassis OEM switch controlled E Prin 1580701  Hadley 24.5" chrome air horns  Chassis wheelbase does not change 20-51-9110  Chassis wheelbase does not change 20-90-1810  Chassis wheelbase does not change 20-90-1810  Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #807  20-99-15AA U Provix Heated B/U camera w/ 7" screen				•	
20-51-0700	20-41-3010			,	WIL
20-51-3000 S Air inlet not requested On board compressor provided  Protection valve installed for air operated accessories 1 MTL 20-51-3400 Protection valve installed for air operated accessories 1 MTL 20-51-6200 S > 120 volt 20 A shore line connection ENC. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See SOPT #547 in file - truck specific  20-51-7500 S Electric System Management through Diamond Logic 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure Locate in left cab step area  20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E P/N 1580701 Hadley 24.5" chrome air horns  20-52-3000 C Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  20-60-0400 C Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (PIN 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #307  20-99-15AA U Provix Heated B/U camera w/ 7" screen			Flat bal tow hooks under real step (2)		
20-51-3000 S Air inlet not requested On board compressor provided  Protection valve installed for air operated accessories 1 MTL 20-51-3400 Protection valve installed for air operated accessories 1 MTL 20-51-6200 S > 120 volt 20 A shore line connection ENC. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See SOPT #547 in file - truck specific  20-51-7500 S Electric System Management through Diamond Logic 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure Locate in left cab step area  20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E P/N 1580701 Hadley 24.5" chrome air horns  20-52-3000 C Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  20-60-0400 C Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (PIN 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #307  20-99-15AA U Provix Heated B/U camera w/ 7" screen					
20-51-3100 S Air inlet not requested On board compressor provided  20-51-3400 Protection valve installed for air operated accessories  20-51-6200 S > 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet  One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 in file - truck specific  20-51-7101 S Electric System Management through Diamond Logic 1 MTL Locate in left cab step area 1 MTL Locate in left cab step area 1 MTL Constend In the left cab step area 1 MTL Switched with park brake.  20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E PN 1580701 Hadley 24.5" chrome air horns 1 MTL ENGINE Required for all chassis except Freightliner, Sterling, Spartan 1 SOPT #507  20-90-1810 U Extend air tank moisture ejectors to rubrail and tag 1 SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment suitable charging batteries on small tools and radios. Power bar (PIN 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072			Master Battery Disconnect included with chassis		
On board compressor provided  20-51-3400				-	
20-51-3400 Protection valve installed for air operated accessories 20-51-6200 S > 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet  One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 in file - truck specific  20-51-7101 S Electric System Management through Diamond Logic 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure 1 MTL Locate in left cab step area  20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E PIN 1580701 Hadley 24.5" chrome air horns  20-52-3000 > Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag 20-90-1810 U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (PIN 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen 1	20-51-3100	S		1	MTL
20-51-6200   S   > 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet			On board compressor provided		
20-51-6200   S   > 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet					
20-51-6200   S   > 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet	20-51-3400		Protection valve installed for air operated accessories	1	MTL
ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet  One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502		S			
Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet  One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502 U Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 in file - truck specific  20-51-7101 S Electric System Management through Diamond Logic 20-51-7500 S Super Auto eject for 120 v - 20 A with sealed enclosure Locate in left cab step area  20-51-8500 S Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.  20-51-9110 Air horns on hood, chassis OEM switch controlled E PIN 1580701 Hadley 24.5" chrome air horns  20-52-3000 > Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  20-60-0400 Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072	20 01 0200			_	
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One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502			Requires 20-31-73 120 voit auto eject of 20-31-60 120 voit fillet		
One in rear left side compartment - for power bar (20-99-05AA) in the top corner  20-51-6502			O for both and a second second		
20-51-6502					
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Hadley 24.5" chrome air horns  20-52-3000					
20-52-3000 > Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  20-60-0400 Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen					
ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  20-60-0400 Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen			Hadioy 47.0 dillottic all Hollis		
ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan  20-60-0400 Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen	20 52 2000		Chassis steering wheel lined up by others	1	MTI
Required for all chassis except Freightliner, Sterling, Spartan  20-60-0400 Chassis wheelbase does not change  20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen	20-32-3000			I	IVIIL
20-60-0400 Chassis wheelbase does not change 20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen					
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20-90-1810 U Extend air tank moisture ejectors to rubrail and tag SOPT #507  20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen					
20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen				1	MTL
20-99-05AA U Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen	20-90-1810	U	Extend air tank moisture ejectors to rubrail and tag	1	
Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen			SOPT #507		
Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen					
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charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen		_		_	
Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072  20-99-15AA U Provix Heated B/U camera w/ 7" screen					
SOPT #1072 20-99-15AA U Provix Heated B/U camera w/ 7" screen 1			Power har (P/N 1130302) will plug into shoreline recentacle 20-51-6200		
20-99-15AA U Provix Heated B/U camera w/ 7" screen 1					
			3UF1 #10/2		
	00 00 455	,.	B		
The rear b/u camera will be by Provix, heated and will have a 7" screen.	20-99-15AA	U		1	
			The rear b/u camera will be by Provix, heated and will have a 7" screen.		

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PART NO	S	DESCRIPTION	QTY	ID
		PUMP AND PLUMBING	1	MTL
30-11-3002		Waterous CXVPA 1250 PTO driven pump - 1050 IGPM	1	MTL
		Pump is mounted between frame rails	ì	
30-15-0304		Plumbing - non manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1620	S	Piping stainless steel - non manifold pumps	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications - CSA	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2510	S	Anodes in suction and discharge piping - non manifold pump	1	MTL
		Install one anode on discharge side of pump, one anode on suction side of pump -	do	
		not use teflon tape or thread sealant.		
		Paint flange silver and mask brass anode before painting for visibility.		
		j j		
30-21-5520		Tank to Pump SS 3" w/ check valve non manifold pump	1	MTL
30-22-0520		Tank Fill valve 2" SS	1	MTL
30-31-4020	S <	Suction - 6" each side SS non manifold pump 6" header	1	MTL
		Suction to be between 36-40" from the ground.		
		outlier to be betteen or it in many ground.		
30-31-7110	S >	Waterous master intake suction valve - handwheel control - Left side inlet	1	MTL
00 01 1110	•	ENG. NOTE:		
		Not available for top mount panels		
		Note location in Shop Note		
		Note location in onep Note		
		Suction to be gated is the left side 6" inlet		
		Suction to be gated is the left side of thiet		
30-32-05AA	U	Left side Suction, 4" gated Storz suction, SS, bleeder, handwheel control,	1	
30-32-03AA	U			
		Akron		
		SOPT #733 in file - truck specific (ref only) When plumbing include SSRV 30-51-7002.		
		when plumbing include 55kV 50-51-7002.		
30-32-05BB	U	Right side Suction, 4" gated Storz suction, SS, bleeder, handwheel control	1	
30-32-0366	U	Akron		
		SOPT #733 in file - truck specific (ref only)		
		When plumbing include SSRV 30-51-7002.		
		when plumbing include 55KV 50-51-7002.		
30-40-3015	S	4" right discharge SS, plumbed 4", handwheel, Waterous non manifold	1	MTL
30-40-3013	3			IVIIL
20 44 2040		pump	1	MITI
30-41-2040 30-41-2540		2-1/2" RS discharge SS, bleeder, non manifold pump	2	<del>_</del>
30-41-2340		2-1/2" LS discharge SS, bleeder, non manifold pump	2	WIIL
		One discharge to be foam compatible - ref 30-52-5510		
20 44 0720	_	4.4/011 amonallass (anala) front of museuphassas CC intermedial Off	_	AAT1
30-44-0720	<	· · · = · · · · · · · · · · · · · · · ·	2	MTL
		Swivel to be outboard, one each side.		
		Capacity for 250' of 1-3/4" hose with nozzle attached.		
		Stainless steel rollers on each end for easier hose removal.		
		Bleeder valve provided on pump panel.		
20 44 6520	c	Dining for monitor CC nlumbed 2" blooder	1	MTL
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder		WIIL
		Piping to terminate rear center of open storage over speedlays - install dir		
		flange mount 80-99-10AA. The pipe needs to sit about 3" above the body to a		
		the monitor to swivel. See pictures in O:/Metalfabphotos/Dysart ON M19-2046	ð	
20 54 0400	C	Dump shift DTO Dump and Dall		NATI
30-51-0400	S	Pump shift - PTO Pump and Roll	1	MTL
		***Includes "Pump Engaged" indicator lights on chassis instrument panel an	u on	
		the pump panel		
		***Includes "Throttle Ready" indicator light on Pump operating panel	4	
		Includes indicator light showing "OK TO PUMP" when transmission is in neu	τral,	
		park brake is set, and PTO control energized. The remote electronic throttle	WIII	
		be energized in this mode.		
		Includes indicator light showing "OK TO PUMP AND ROLL" when		
		transmission is not in neutral, the park brake is not set, and the PTO contr	OI IS	
		energized. The remote electronic throttle will not be energized in this mode.		
		***Requires a guarded DLB switch (Diamond Logic)***		

April   S   Power shift PTO - Automatic transmission   1   MTL	10/18/2019					Page 5
30-51-1501   PTO driveshaft E   ENG. NOTE:   Cuantity of 2 for pumps mounted on 4 door cabs due to length	PART NO	S	DESCRIPTION	QTY		ID
ENG. NOTE:   Quantity of 2 for pumps mounted on 4 door cabs due to length   30-51-6700   S	30-51-1500		Power shift PTO - Automatic transmission		1	MTL
Quantity of 2 for pumps mounted on 4 door cabs due to length   30-51-7002   Suction side relief VV., for the Waterous MiV - Left side 6" suction   1 MTL	30-51-1501		> PTO driveshaft E		1	MTL
Quantity of 2 for pumps mounted on 4 door cabs due to length   30-51-7002   Suction side relief VV., for the Waterous MiV - Left side 6" suction   1 MTL			ENG. NOTE:			
30-51-6700   Social Service   Social S						
MTL			quality of 2 for pumper meaning on 1 ages case are to length			
MTL	30-51-6700		EPC Pump Ross Governor/Throttle angine display		1	MTI
Suction side relief VV, non manifold pump   The three SSRV's are located for each 4" inlet and the 6" right side non gated inlet.		c			- 1	
The three SRV's are located for each 4" inlet and the 6" right side non gated Inlet.  30-51-7715 S Trident Automatic Air Primer 3 barrel 2 location Location #1 - plumbed to pump Location #2 - plumbed to 6" gated intake for pre-prime  30-51-7720 Additional air tank for air primer system An additional air tank is provided and installed by Metalfab to improve air primer capacity.  30-51-8100 Heat exchanger included with chassis 30-51-80AA U Waterous Thermal Relief Valve (OPM) Overheat Protection Manager PN 1542007 Locate on pump operators panel SOPT #844  30-52-1000 Master drain V/V, 12 port 30-52-2000 Drain valve for foam system header SP Panel mount foam Pickup tube and valve Akron A fitting and valve is installed on the pump panel to allow use of foam from an external foam tank or pail rather than the truck mounted foam tank. ""A dual tank selector valve is plumbed to the Akron foam pickup. Locate on left side pump operators panel. Pick up tube will be vertically mounted on the front wall of L1 ahead of operator's controls.  30-52-5510 Foam system-Hypro FoamPro 2001 Single Tank Foam system is plumbed to both Crosslays and a left side 2.5" discharge - rear most unless otherwise specified.  30-52-9100 Foam System Instruction Plates 30-52-9200 Foam System Instruction Plates 30-52-9400 NPPA Foam System certification test 30-52-9904 U Price Adjustment WATER AND FOAM TANKS 1 MTL 40-11-2200 Water tank capacity certification (tank manufacturer) 40-11-600 S Tank capacity 1300 Imperial gallons 40-11-600 S Tank capacity of 100 Imperial gallons 40-11-600 S Tank capacity 1300 Imperial Gallons 40-11-600 G Tank capacity certification (tank manufacturer) 40-11-600 G Tank capacity certification (tank manufacturer) 40-11-600 G Tank capacity capacity certification (tank manufacturer) 40-11-600 G Tank capacity capacity connection 40-21-100					- 1	
inlet.  30-51-7715 S Trident Automatic Air Primer 3 barrel 2 location Location #1 - plumbed to pump Location #2 - plumbed to pump Location #3 - plumbed to en gated intake for pre-prime  30-51-7720 Additional air tank for air primer system An additional air tank is provided and installed by Metalfab to improve air primer capacity.  30-51-8100 Heat exchanger included with chassis Marketon Individual air tank is provided and installed by Metalfab to improve air primer capacity.  40-51-90AA U Waterous Thermal Relief Valve (OPM) Overheat Protection Manager PN 1542007 Locate on pump operators panel SOPT #844  30-52-3000 Master drain VIV. 12 port Drain valve for foam system header Marketon A fitting and valve is installed on the pump panel to allow use of foam from an external foam tank or pail rather than the truck mounted foam tank.  ""A dual tank selector valve is plumbed to the Akron foam pickup. Locate on left side pump operators panel. Pick up tube will be vertically mounted on the front wall of L1 ahead of operator's controls.  30-52-5510 Foam system-Hypro FoamPro 2001 Single Tank Foam system is plumbed to both Crosslays and a left side 2.5" discharge - tear most unless otherwise specified.  30-52-9400 Foam Concentrate label at foam tank fill S0-52-99AA U Price Adjustment WATER AND FOAM TANKS MPFA Foam System Instruction Plates MFPA Foam System everification test MFPA Foam System everification test MFPA Foam System everification (tank manufacturer) MTL MTL WHILL WATER AND FOAM TANKS MINIMUM 60-91-91-900 S Foam cell - 10 Imperial gallons MINIMUM 60-91-91-900 S Foam cell - 10 Imperial gallons MINIMUM 60-91-900 Price do per cubic foot of tunnel volume  For ladder storage - ref 60-40-9000  40-21-1000 4" tank to pump connection MTL MTL 40-23-0500 1" water level gauge connection MTL 40-23-0500 1" water level gauge connection MTL 40-30-0400 1" froam level gauge connection MTL 40-30-0400 1" froam level gauge connection MTL 40-30-0400 1" in gate level gauge connection MTL 40-30-0400 1" in gate level gauge connection MTL	30-31-7002	3	Suction side rener V/V, non mannious pump		3	IVIIL
30-51-7715   S   Trident Automatic Air Primer 3 barrel 2 location   1   Location #1 - plumbed to pump				itea		
Location #1 - plumbed to pump			iniet.			
Location #1 - plumbed to pump						
Additional air tank for air primer system	30-51-7715	S			1	MTL
MTL			Location #1 - plumbed to pump			
MTL			Location #2 - plumbed to 6" gated intake for pre-prime			
An additional air tank is provided and installed by Metalfab to improve air precapacity.						
An additional air tank is provided and installed by Metalfab to improve air precapacity.	30-51-7720		Additional air tank for air primer system		1	MTL
Amily	00 01 1120		An additional air tank is provided and installed by Metalfab to improve air pr		- 1	
MTL						
30-51-90AA   U   Waterous Thermal Relief Valve (OPM) Overheat Protection Manager PIN 154207   Locate on pump operators panel SOPT #844			capacity.			
30-51-90AA   U   Waterous Thermal Relief Valve (OPM) Overheat Protection Manager PIN 154207   Locate on pump operators panel SOPT #844	20 54 9400		Heat evaluation included with abords		4	MTI
PIN 1542007					7	IVI I L
Locate on pump operators panel   SOPT #844   SOPT #845   SOPT #846   SOPT #8	30-51-90AA	U			7	
SOPT #844						
Master drain VIV. 12 port   1   MTL   30-52-2000   S   Drain valve for foam system header   1   MTL   Aftting and valve is installed on the pump panel to allow use of foam from an external foam tank or pall rather than the truck mounted foam tank.						
1			SOPT #844			
1						
30-52-3000   Drain valve for foam system header   1	30-52-1000		Master drain V/V, 12 port		1	MTL
MTL	30-52-2000				1	MTL
A fitting and valve is installed on the pump panel to allow use of foam from an external foam tank or pail rather than the truck mounted foam tank.  ""A dual tank selector valve is plumbed to the Akron foam pickup. Locate on left side pump operators panel. Pick up tube will be vertically mounted on the front wall of L1 ahead of operator's controls.  30-52-5510  Foam system-Hypro FoamPro 2001 Single Tank Foam system is plumbed to both Crosslays and a left side 2.5" discharge - lear most unless otherwise specified.  30-52-9100  Foam Concentrate label at foam tank fill 1 MTL 30-52-9200  Foam System Instruction Plates 1 MTL 30-52-9400  NFPA Foam System certification test 1 MTL 30-52-99AA U Price Adjustment WATER AND FOAM TANKS 1 MTL 40-11-2100  S Polypropylene water tank (Imperial gallons) Minimum 6" overflowtokent Fill tower to be 14" square  40-11-2200  Water tank capacity certification (tank manufacturer) Through the tank tunnel - up to 20 cu ft ENG. NOTE: Charge 60 per cubic foot of tunnel volume  For ladder storage - ref 60-40-9000  4" tank to pump connection 1 MTL 40-23-0500 1" foam level gauge connection 1 MTL 40-23-1000 1" foam level gauge connection 1 MTL 40-23-1000 1" foam level gauge connection 1 MTL 40-23-1050 4" Fireman's Friend connection 1 MTL 40-23-1050 4" Fireman's Friend connection 1 MTL 40-23-1060 3" plug in sump box 1 MTL 40-30-0400 3" plug in sump box		S				
external foam tank or pail rather than the truck mounted foam tank.  ****A dual tank selector valve is plumbed to the Akron foam pickup. Locate on left side pump operators panel. Pick up tube will be vertically mounted on the front wall of L1 ahead of operator's controls.  **John System Splumbed to both Crosslays and a left side 2.5" discharge - rear most unless otherwise specified.  **John System Splumbed to both Crosslays and a left side 2.5" discharge - rear most unless otherwise specified.  **John System Instruction Plates 1 MTL	00-02-0000	•			1	
#*************************************				ii aii		
Locate on left side pump operators panel.   Pick up tube will be vertically mounted on the front wall of L1 ahead of operator's controls.						
Pick up tube will be vertically mounted on the front wall of L1 ahead of operator's controls.						
30-52-5510   Foam system-Hypro FoamPro 2001 Single Tank   Foam system is plumbed to both Crosslays and a left side 2.5" discharge - rear most unless otherwise specified.   1			Locate on left side pump operators panel.			
30-52-5510				of		
Foam system is plumbed to both Crosslays and a left side 2.5" discharge - rear most unless otherwise specified.   30-52-9100			operator's controls.			
Foam system is plumbed to both Crosslays and a left side 2.5" discharge - rear most unless otherwise specified.   30-52-9100						
Most unless otherwise specified.   30-52-9100	30-52-5510				1	MTL
30-52-9100			Foam system is plumbed to both Crosslays and a left side 2.5" discharge - I	ear		
30-52-9200   Foam System Instruction Plates   1   MTL			most unless otherwise specified.			
30-52-9200   Foam System Instruction Plates   1   MTL			·			
30-52-9200   Foam System Instruction Plates   1   MTL	30-52-9100		Foam concentrate label at foam tank fill		1	MTL
30-52-9400   NFPA Foam System certification test   1   30-52-99AA   U   Price Adjustment   WATER AND FOAM TANKS   1   MTL						
30-52-99AA   U   Price Adjustment   WATER AND FOAM TANKS   1   MTL						
WATER AND FOAM TANKS		11				
### 40-11-2100 S Polypropylene water tank (Imperial gallons)   Minimum 6" overflow/vent   Fill tower to be 14" square	30-32-33AA	U			- 1	мті
Minimum 6" overflow/vent   Fill tower to be 14" square	40 44 2400					
## Fill tower to be 14" square  ## 40-11-2200 Water tank capacity certification (tank manufacturer)  ## 40-11-6000 S Tank capacity 1300 Imperial Gallons  ## 40-12-4500 S Foam cell - 10 Imperial gallon  ## 40-13-0100 Through the tank tunnel - up to 20 cu ft  ENG. NOTE:  Charge 60 per cubic foot of tunnel volume  ## For ladder storage - ref 60-40-9000  ## tank to pump connection  ## 40-21-1000	40-11-2100	3			1	IVIIL
40-11-2200   Water tank capacity certification (tank manufacturer)   1   MTL						
40-11-6000       S       Tank capacity 1300 Imperial Gallons       1       MTL         40-12-4500       S       Foam cell - 10 Imperial gallon       1       MTL         40-13-0100       > Through the tank tunnel - up to 20 cu ft ENG. NOTE:       1       MTL         Charge 60 per cubic foot of tunnel volume         For ladder storage - ref 60-40-9000         40-21-1000       4" tank to pump connection       1       MTL         40-22-0500       2" tank fill connection       1       MTL         40-23-0500       1" water level gauge connection       1       MTL         40-23-1000       1" foam level gauge connection       1       MTL         40-23-1050       4" Fireman's Friend connection       1       MTL         40-23-1060       10" Newton dump connection       1       MTL         40-30-0400       3" plug in sump box       1       MTL			riii tower to de 14" square			
40-11-6000       S       Tank capacity 1300 Imperial Gallons       1       MTL         40-12-4500       S       Foam cell - 10 Imperial gallon       1       MTL         40-13-0100       > Through the tank tunnel - up to 20 cu ft ENG. NOTE:       1       MTL         Charge 60 per cubic foot of tunnel volume         For ladder storage - ref 60-40-9000         40-21-1000       4" tank to pump connection       1       MTL         40-22-0500       2" tank fill connection       1       MTL         40-23-0500       1" water level gauge connection       1       MTL         40-23-1000       1" foam level gauge connection       1       MTL         40-23-1050       4" Fireman's Friend connection       1       MTL         40-23-1060       10" Newton dump connection       1       MTL         40-30-0400       3" plug in sump box       1       MTL	40.44.0000		Makan kanda ana alika andifirati di dan Kanda Kanda A			N 4.T.
40-12-4500       S       Foam cell - 10 Imperial gallon       1       MTL         40-13-0100       > Through the tank tunnel - up to 20 cu ft ENG. NOTE:       1       MTL         Charge 60 per cubic foot of tunnel volume         For ladder storage - ref 60-40-9000         40-21-1000       4" tank to pump connection       1       MTL         40-22-0500       2" tank fill connection       1       MTL         40-23-0500       1" water level gauge connection       1       MTL         40-23-1000       1" foam level gauge connection       1       MTL         40-23-1050       4" Fireman's Friend connection       1       MTL         40-23-1060       10" Newton dump connection       1       MTL         40-30-0400       3" plug in sump box       1       MTL		_				
40-13-0100       > Through the tank tunnel - up to 20 cu ft ENG. NOTE:						
ENG. NOTE: Charge 60 per cubic foot of tunnel volume  For ladder storage - ref 60-40-9000  40-21-1000	40-12-4500	S			1	MTL
Charge 60 per cubic foot of tunnel volume	40-13-0100		> Through the tank tunnel - up to 20 cu ft		1	MTL
Charge 60 per cubic foot of tunnel volume			ENG. NOTE:			
For ladder storage - ref 60-40-9000  40-21-1000						
40-21-1000       4" tank to pump connection       1 MTL         40-22-0500       2" tank fill connection       1 MTL         40-23-0500       1" water level gauge connection       1 MTL         40-23-1000       1" foam level gauge connection       1 MTL         40-23-1050       4" Fireman's Friend connection       1 MTL         40-23-1060       10" Newton dump connection       1 MTL         40-30-0400       3" plug in sump box       1 MTL			g			
40-21-1000       4" tank to pump connection       1 MTL         40-22-0500       2" tank fill connection       1 MTL         40-23-0500       1" water level gauge connection       1 MTL         40-23-1000       1" foam level gauge connection       1 MTL         40-23-1050       4" Fireman's Friend connection       1 MTL         40-23-1060       10" Newton dump connection       1 MTL         40-30-0400       3" plug in sump box       1 MTL			For ladder storage - ref 60-40-9000			
40-22-0500       2" tank fill connection       1 MTL         40-23-0500       1" water level gauge connection       1 MTL         40-23-1000       1" foam level gauge connection       1 MTL         40-23-1050       4" Fireman's Friend connection       1 MTL         40-23-1060       10" Newton dump connection       1 MTL         40-30-0400       3" plug in sump box       1 MTL						
40-22-0500       2" tank fill connection       1 MTL         40-23-0500       1" water level gauge connection       1 MTL         40-23-1000       1" foam level gauge connection       1 MTL         40-23-1050       4" Fireman's Friend connection       1 MTL         40-23-1060       10" Newton dump connection       1 MTL         40-30-0400       3" plug in sump box       1 MTL	40-21-1000		4" tank to nump connection		1	MTI
40-23-0500       1" water level gauge connection       1 MTL         40-23-1000       1" foam level gauge connection       1 MTL         40-23-1050       4" Fireman's Friend connection       1 MTL         40-23-1060       10" Newton dump connection       1 MTL         40-30-0400       3" plug in sump box       1 MTL						
40-23-1000       1" foam level gauge connection       1 MTL         40-23-1050       4" Fireman's Friend connection       1 MTL         40-23-1060       10" Newton dump connection       1 MTL         40-30-0400       3" plug in sump box       1 MTL						
40-23-1050       4" Fireman's Friend connection       1       MTL         40-23-1060       10" Newton dump connection       1       MTL         40-30-0400       3" plug in sump box       1       MTL						
40-23-1060       10" Newton dump connection       1       MTL         40-30-0400       3" plug in sump box       1       MTL						
40-30-0400 3" plug in sump box 1   MTL						
			10" Newton dump connection			
40-30-1000 Water Fill Box front left corner 1 MTL						
	40-30-1000		Water Fill Box front left corner		1	MTL

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PART NO	S	DESCRIPTION	QTY	ID
40-31-4500		10" rear Newton dump, painted steel	1	MTL
40-31-5000		Newton dump - 36" telechute painted steel	1	MTL
40-31-5510		Electric operator for Newton dump, side mount	1	MTL
		Switch is located left side over the rear flasher		
40-31-5600	>	Rotating dump chute for Newton dump painted steel ENG. NOTE:	1	MTL
		Requires top mount control on dump valve		
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL
40-31-9000		4" Storz rear fill, Fireman's Friend	1	MTL
		Located right of dump as shown on the proposal drawing.		
		ELECTRICAL	1	MTL
50-11-0450		Base electrical system - International Diamond Logic multiplex	1	MTL
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents	1	MTL
00-11-0000		As required by ULC and NFPA standards	•	· · · · ·
		7.0 roquired by OLO und 141 1 7. standards		
50-11-0900	S	Rocker switch panel with master warning switch	1	MTL
		****Rocker switch assignments:	-	
		MASTER		
		-LIGHT BAR		
		-REAR BEACONS		
		-FLASHING WARNING		
		-LEFT SIDE SCENE		
		-RIGHT SIDE SCENE		
		-REAR SCENE		
		The International chassis switches in the dash will be used as approved by	Pod	
		Harris by e-mail on 06.24.2019	itou	
50 44 444 4	.,	M/halan Giran 2050LCA4	,	
50-11-14AA	U	Whelen Siren - 295SLSA1	1	
		Located in cab console 20-31-7500		
		P/N 1570957		
		SOPT #16		
50-11-16AA	U <	Whelen Siren speaker - SA315P - 100 Watt behind front bumper/grille	1	
00-11-10AA	0 1	The color of the speaker is black in color and department request to have		
		speaker in the front bumper opening if allowed by International	liie	
		SOPT #16		
		001 1 #10		
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-61AA	U	Whelen Legacy 54" lightbar - LED and NFPA compliant - red/blue	1	
00 11 011 01		Model GB2RBRB	•	
		SOPT #269a in file - truck specific		
		The state of the s		
50-11-6501	S	Rear Directional Light not requested	1	MTL
50-11-8340	Ũ	Whelen LED rear beacons, L31HRF (red), L31HBF (blue)	1	
		SOPT #9 - truck specific	-	
		Red beacon P/N 1570618		
		Blue beacon P/N - TBD		
		The department specified the left side is red and the right side is blue		
		Confirmed by e-mail 06.03.2019 by Rod Harris		
50-12-83AA	U	LED lighting for Zico access ladder on rear of body	1	
		Amdor LED Lumabars		
		SOPT #307b		
F0 40 051 1		Front and front side I FD flock on ( ) Mile to 180 (		
50-12-85AA	U	Front and front side LED flashers (pr) Whelen M6 two red, two blue	1	
		Red M6 flasher P/N 1031585		
		Blue M6 flasher P/N - TBD		
		SOPT #952a - truck specific		
		The department specified the location of red light will be on the right andthe	euia	

10/18/2019				Page 7
PART NO	S	DESCRIPTION	QTY	ID
		lights will be on the left.		
		Confirmed by e-mail on 06.03.2019 by Rod Harris.		
50-12-86AA	U	Poor I ED flochers (nr) Wholen M6 one red, one blue	1	
30-12-00AA	U	Rear LED flashers (pr) Whelen M6 one red, one blue SOPT #951a	,	
		The department specified the location of red light to be on the right and the	hlua	
		lights to be on the left.	Diac	
		Confirmed by e-mail on 06.03.2019 by Rod Harris.		
50-12-88AA	U	Body side LED flasher (pr) Whelen M6 both red	1	
		SOPT #953a - truck specific		
		Both lights to be Red		
E0 24 2EAA	11 4	Wholey BCD2D4 42 yelf 20 000 Lymana aytanda light		
50-21-25AA	U <	Whelen PCP3P1 - 12-volt, 20,000 Lumens extenda light SOPT #722	2	
		Light is switched on light head		
		Push up pole 86930WB4 with steady rest and sensor - wire sensor to equipm	ont	
		not stowed warning light 50-11-5550.	CIII	
		not stored warming light out it bood.		
50-21-5100	>	> Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
		ENG. NOTE:		
		Rollup doors only	,	
50-21-5500	S	Door Ajar warning light	1	MTL
		Wired through Diamond Logic		
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
50-21-5550	S	Equipment year not stowed warning light	4	MTL
30-21-3330	3	Equipment rack not stowed warning light For the Zico PTS system and the push up telescopic lights.	1	IVIIL
		Wired through Diamond Logic.		
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
		20 1101 mo 10 / pp 11 1100 1110 211		
50-21-8001	S	Step lights for body steps - LED	1	MTL
		Switched when park brake is set.		
50-21-8200	S	Step lights for chassis steps - LED	1	MTL
		Switched when park brake is set.		
50.04.0000		LED also were the and reflectors		NATI
50-21-8600	U	LED clearance its and reflectors	1	MTL
50-21-8605	U	Cast Products license plate holder with LED light SOPT #18	7	
		P/N 1562640		
		1 /N 1002040		
50-22-0710	U	Whelen C6 LED tail/brake-turn-backup module (pr)	1	
50-31-60AA	Ü	Whelen M9 LED Scene lights (pr) - M9LZC	3	
		There shall be Whelen M9 LED scene lights installed on each side (directly to	the	
		body surface without scene light boxes) - two each side in upper corners		
		The rear scene lights will be installed on the left side of the body (left of the	Zico	
		Access ladder 60-31-5000) and on the right side under the hose bed		
		Three switches in cab labeled Left scene light, Right scene light and Rear so	ene	
		light.		
		The rear shall also be wired to come on when the chassis is placed in reverse	<del>)</del> .	
		SOPT #571		
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis	1	MTL
JU-J 1-0JJU		Switched when park brake is set.	,	/// / L
		Children Hillori park brake to ook		
50-31-6570		Ground lighting (LED Lumabar) - side mount body	1	MTL
		Switched when park brake is set.		
		CC. Trilling pair aranta to bott		

DESCRIPTION   Solution   Switched withing - LED on front partition   Switched with park brake is set.	10/18/2019					Page 8
Switched when park brake is set: SOPT #958  50-35-0500 S Provisions (wiring) for Customer's supplied and installed radio(in console area) There will be two (2) power cables for 2-Way radio wiring supplied by Carrier with 20-amp tisse protection. Wiring will terminate at centre console. The first set was delivered 03.07.2019 and the second will be delivered 03.19.2019. They will both be wired to the battery Master switch.  50-35-0560 S WHs antenna with base - commercial chassis Metalfab will install the Carrier supplied Antennas behind the light bar and run the cable to the centre console 20-31-7500. The first antenna arrived 03.07.2019 and the second antenna will be delivered 20.19.2019.  50-35-0590 U Price Adjustment 60-10-1400 Single axie extruded aluminum body 60-10-1400 Compartment vents to include removable and replaceable particulate filters (e.) SOPT #909  60-10-15AA U 1" drop on lower edge of compartment floor - sweep out type SOPT #1236  60-10-4100 No "beavertail" rear step supports Painted fender surround E 60-10-4400 No "beavertail" rear step supports Painted fender surround E 60-10-4500 Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground  60-10-5430 Diamondback pumphouse steps ENG. NOTE: Maximum height of rear step is 24" from ground  60-10-6500 Bott on extruded aluminum rub rail E Install white reflective in rubrails.  60-11-0350 Peront fight side compartments full height E ENG. NOTE: Specify critical dimensions in shop note  60-11-0550 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-1000 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-10100 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-10100 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	PART NO	S	DESCRIPTION	QTY	1	ID
Switched when park brake is set: SOPT #958  50-35-0500 S Provisions (wiring) for Customer's supplied and installed radio(in console area) There will be two (2) power cables for 2-Way radio wiring supplied by Carrier with 20-amp tisse protection. Wiring will terminate at centre console. The first set was delivered 03.07.2019 and the second will be delivered 03.19.2019. They will both be wired to the battery Master switch.  50-35-0560 S WHs antenna with base - commercial chassis Metalfab will install the Carrier supplied Antennas behind the light bar and run the cable to the centre console 20-31-7500. The first antenna arrived 03.07.2019 and the second antenna will be delivered 20.19.2019.  50-35-0590 U Price Adjustment 60-10-1400 Single axie extruded aluminum body 60-10-1400 Compartment vents to include removable and replaceable particulate filters (e.) SOPT #909  60-10-15AA U 1" drop on lower edge of compartment floor - sweep out type SOPT #1236  60-10-4100 No "beavertail" rear step supports Painted fender surround E 60-10-4400 No "beavertail" rear step supports Painted fender surround E 60-10-4500 Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground  60-10-5430 Diamondback pumphouse steps ENG. NOTE: Maximum height of rear step is 24" from ground  60-10-6500 Bott on extruded aluminum rub rail E Install white reflective in rubrails.  60-11-0350 Peront fight side compartments full height E ENG. NOTE: Specify critical dimensions in shop note  60-11-0550 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-1000 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-10100 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-10100 Peront fight side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	50-31-65AA	U	Hose bed lighting - LED on front partition		1	
SOPT #958   SOPT #958   SOPT #958   SOPT #958   SOPT #958   There will be two (2) power cables for 2-Way radio wiring supplied by Carrier with 20-amp ruse protection. Wiring will terminate at centre console. The first set was delivered 03.07.2019 and the second will be delivered 03.07.2019 and the second antenna will be delivered 02.19.2019.    So-35-0590			Switched when park brake is set		- 1	
Solution   Solution   Provisions (wiring) for Customer's supplied and installed radio(in console area)   There will be two (2) power cables for 2-Way radio wiring supplied by Carrier with 20-amp fuse protection. Wiring will terminate at centre console. The first set was delivered 03.07.2019 and the second will be delivered 03.19.2019. They will both be wired to the battery Master switch.    Solution			SOPT #958			
area) There will be two (2) power cables for 2-Way radio wiring supplied by Carrier with 20-amp fuse protection. Wiring will terminate at centre console. The first set was delivered 03.07.2019 and the second will be delivered 03.19.2019. They will both be wired to the battery Master switch.  50-35-0560  S  VHF antenna with base - commercial chassis Metaliab will install the Camer supplied Antennas behind the light bar and run the able to the centre console 20-31-7500. The first antenna arrived 03.07.2019 and the second antenna will be delivered 20.19-2019.  50-35-0590  U  Price Adjustment BODY 1 1 60-10-1400 Single axle extruded aluminum body SOPT #905  60-10-154A U 1 **drop on lower edge of compartment floor - sweep out type SOPT #1236 60-10-4100 RO-10-4100 RO-10-4100 RO-10-4100 RO-10-4100 RO-10-400 RO-10-4000 RO-10-4000 RO-10-4000 RO-10-4000 RO-10-4000 RO-10-400			331 1 #330			
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with 20-amp fuse protection. Wiring will terminate at centre console. The first set was delivered 03.07.2019 and the second will be delivered 03.19.2019. They will both be wired to the battery Master switch.  50-35-0560 S WHF antenna with base - commercial chassis Metalfab will install the Carrier supplied Antennas behind the light bar and run the cable to the centre console 20-31-7500. The first antenna arrived 03.07.2019 and the expense of antenna will be delivered 20.19.2019.  50-35-0590 U Price Adjustment Single axie extruded aluminum body Go-10-1400 Single axie extruded aluminum body Go-10-1440 Compartment vents to include removable and replaceable particulate filters (a) SOPT #905  60-10-15AA U 1" drop on lower edge of compartment floor - sweep out type SOPT #1236  60-10-4100 No "beavertail" rear step supports Falinted fender surround E Go-10-4600 Falinted fender surround E Go-10-4600 Falinted fender surround E Falinted			area)  There will be two (2) never coblector 2 Way radio wiring cumpled by Com	rior.		
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cable to the centre console 20-31-7500. The first antenna arrived 03.07.2019 and the second antenna will be delivered 20.19.2019.  50-35-0590 U Price Adjustment BODY 1 1 MTL 60-10-1480 U Compartment vents to include removable and replaceable particulate filters (ea) SOPT #905  60-10-1488 U 1' drop on lower edge of compartment floor - sweep out type SOPT #905  60-10-154A U 1'' drop on lower edge of compartment floor - sweep out type SOPT #1236  60-10-14100 No "beavertail" rear step supports 1 1 MTL 60-10-4800 Painted fender surround E 1 1 MTL Painted fender surround E 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - single axle 1 1 MTL Floor Will be removable stainless steel fender trim - sing	50-35-0560	3			_	WIL
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50-35-0590 U Price Adjustment  60-10-1400 Single axle extruded aluminum body 60-10-1488 U Compartment vents to include removable and replaceable particulate filters (ea) SOPT #905  60-10-15AA U 1* drop on lower edge of compartment floor - sweep out type SOPT #1236  60-10-4100 Painted fender surround E 60-10-4100 Painted fender surround E 7 MTL 7 Removable stainless steel fender trim - single axle There will be removable stainless steel fenderettes to cover the rear 315 tires.  60-10-5400 Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24* from ground  60-10-5430 Diamondback 19* rear step ENG. NOTE: Maximum height of rear step is 24* from ground  60-10-6500 Bolt on extruded aluminum rub rail E Install white reflective in rubralls.  60-11-0300 Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note  60-11-0550 Second front left side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-0550 Second front right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-0500 Rear right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-0550 Rear right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-1050 Rear right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note  60-11-1050 Rear right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note				ine		
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60-10-1400 Single axle extruded aluminum body 60-10-1488 U Compartment vents to include removable and replaceable particulate filters (ea) SOPT #905 60-10-15AA U 1" drop on lower edge of compartment floor - sweep out type SOPT #1236 60-10-4100 No "beavertail" rear step supports 60-10-4400 Painted fender surround E Removable stainless steel fender trim - single axle There will be removable stainless steel fenderettes to cover the rear 315 tires. 60-10-4770 S Removable stainless steel fenderettes to cover the rear 315 tires. 60-10-5400 Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground 60-10-5430 Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground 60-10-6500 Bolt on extruded aluminum rub rail E Install white reflective in rubralls. 60-11-0300 Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note 60-11-0350 Second front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note 60-11-0550 Front right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note 60-11-0550 Second front right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note 60-11-0500 Rear left side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note 60-11-0500 Rear left side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note 60-11-0500 Rear left side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note 60-11-1000 Rear left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note 60-11-0500 Rear right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note						
60-10-1400 Single axle extruded aluminum body  60-10-1488 U Compartment vents to include removable and replaceable particulate filters (ea) SOPT #905  60-10-15AA U 1" drop on lower edge of compartment floor - sweep out type SOPT #1236  60-10-4100 No "beavertail" rear step supports 1 MTL Painted fender surround E 1 MTL Painted Fender Step SENG. NOTE: Painted Fender Step SENG. Painted Fender Step Step Step Step Step Step Step Step	50-35-0590	U				
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SOPT #1236  60-10-4100 No "beavertail" rear step supports Painted fender surround E Painted Fender						
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60-11-1000 > Rear left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note  60-11-1100 > Rear right side compartment to top of wheel well ENG. NOTE:  1 MTL  MTL			ENG. NOTE:			
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60-11-1100 > Rear right side compartment to top of wheel well 1 MTL ENG. NOTE:			ENG. NOTE:			
60-11-1100 > Rear right side compartment to top of wheel well 1 MTL ENG. NOTE:			Specify critical dimensions in shop note			
ENG. NOTE:						
	60-11-1100		> Rear right side compartment to top of wheel well		1	MTL
Specify critical dimensions in shop note						
			Specify critical dimensions in shop note			

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PART NO	S		DESCRIPTION	QTY		ID
60-11-2000		>	High side compartment (over 18") each		1	MTL
			ENG. NOTE:			
			Specify critical dimensions in shop note Specify type of door			
			Specify type of door Specify flip up or drop down			
			Specify which side of body			
			openity which side of body			
60-11-3100			No rear compartment E		1	MTL
60-11-5500			Rollup door - standard height		4	MTL
			Natural aluminum finish			
			Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir	ıch		
			point			
60 44 5500			Dollars door full beingt		2	MTL
60-11-5520			Rollup door - full height Natural aluminum finish	,	3	IVIIL
			Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir	ch		
			point	l Cit		
			Politi			
60-11-5655	U	<	Amdor pull strap - L3 compartment		1	
			Include with door order			
			Metalfab part number 1003066			
			Amdor part number AY-9355-18			
			For door opening height of 20" to 37"			
			Installed on the following doors Left side over rear wheels			
			SOPT #1114			
			30F1 #1114			
60-11-5660	IJ	<	Amdor pull strap - L1, L2 and L4 compartments		3	
			Include with door order			
			Metalfab part number 1003068			
			Amdor part number AY-9355-36			
			For door opening height of 49" to 70"			
			Installed on the following doors			
			Left side front compartment door			
			Left side second front compartment door			
			Left side rear compartment door SOPT #1114			
			30F1#1114			
60-31-4100			Extruded aluminum handrails		1	MTL
			Minimum 2" clearance from handrail to any surface			
			,			
60-31-5000			Zico access Ladder at rear of unit		1	MTL
			Minimum 7" clearance between rung and any obstruction			
			Located on rear, left side			
00 04 5000	_					
60-31-5600	S		Steps and grab handles at front of body as required		1	MTL
			For HEAT style front ends			
60-31-5800	S		Special step at rear of body		1	MTL
30 07 0000	3		Standard bolted on step above the ladder rube, as wide as possible. Step		1	
			surface will be aluminum ventilated diamond back material	, <b>-</b>		
60-31-6500	S		Compartment matting - black plastic interlocking tile			MTL
60-31-8003	U		Double SCBA bottle holder in rear fender (ea)	,	4	
			Door ajar switch required			
			Restraining strap required SOPT 1023			
			OOF 1 1020			
60-31-8200	S	>	Sliding vertical tool board - open/close latch		1	MTL
32 21 2200			ENG. NOTE:		-	
			Specify location			
			There will be a vertical toolboard installed in the L4 compartment in the full de	pth		
			section only. It will be centered in the compartment.			

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PART NO	S	DESCRIPTION	QTY	ID
60-31-83AA	U	PAC tool board in L2 compartment	1	
		There will be a PAC tool board installed in the upper portion of the L2 compartment will be the full width of the compartment and the CII above the first delay 15 00 24.0		
		will be the full width of the compartment and start 6" above the fixed shelf 60-31-9	000	
		and extend to the top of the compartment.		
60-31-8800		> Sliding tray (ea) - 600 pound capacity	1	MTL
00 01 0000		ENG. NOTE:	-	
		Specify location		
		Location: L2 compartment at floor level		
		***Hardware requires 3-1/2" of compartment height	L.	
		Reflective stripe is applied on the exposed edge for visibility when	tne	
		compartment door is open		
60-31-9600	S	> Adjustable shelf (ea)	5	MTL
00 07 0000		ENG. NOTE:		
		Specify location		
		Shelf #1 - L2 compartment and full depth		
		Shelf #2 - R1 compartment and full depth		
		Shelf #3 - R2 compartment and full depth		
		Shelf #4 - Fixed at depth change of L2 compartment Shelf #5 - Fixed at depth change of L4 compartment		
		Reflective stripe is applied on the exposed edge for visibility when the compartment	ent	
		door is open		
		·		
60-32-3550		Two adjustable hose divider (each)	1	MTL
		Hand hold required in end		
60-32-7500		Hose bed - aluminum	1	MTL
<b>60-33-0000</b>		Paint exterior - Imron Elite	1	
00 00 0000		*** Paint code and colour red to match cab	•	10112
		Tallit Code and Colour load to material case		
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S	Chassis wheels not painted - leave red as supplied by chassis OEM	1	MTL
		Studs, nuts and hubs will remain black as supplied by chassis OEM.		
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	
60-33-2200		Lettering - 80 letters up to 3" tall - 3 colour	1	
		*** Vinyl letters, Fire Department to provide details on location and text.		
60-33-3200	S	Reflective stripe - 1" - 4" white	. 1	MTL
		50% of perimeter each side and 25% of perimeter front. The stripe will be 1" on	the	
		upper and 4" at the lower position.		
60-33-3310		Reflective stripe - red and yellow chevron at rear	1	MTL
00 00 0070		Minimum 50% of rear vertical surface.	-	
60-33-3500		Tarp over hose bed - black		MTL
		A hosebed cover will be provided and secured to top body flanges by qua		
		turn snaps at front of hosebed and Velcro on each side edge of the cover. A on bar will be furnished at the front of the cover to securely attach tarp to,		
		Velcro straps will be provided on the rear of the cover to tie around footi		
		loops. Color to be black.	IIaII	
		<sub>  </sub>		
60-33-3600		Reflective stripe - inside entry doors	1	MTL
		96 square inches minimum inside each cab entry door		
00.00.4000	_	Find towns for an addition to the state of t		
60-33-4000	S	End tarps for speedlays - black	1	MTL
		End tarps shall be installed for Speedlays. Color to be black.  Velcro straps shall be installed to tie around footman loops.		
		Foloro Strapo Silan De inistanea to tie arouna rootinan roops.		
60-40-5500		Suction hose tube (each) with door		MTL
		Tubes with rear access under tee of tank to house the 6" x 10' suction ho		
		80-11-5000.		
			_	

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PART NO	S	DESCRIPTION	QT'	Y	ID
		Door ajar switch required.			
60-40-9000		Tube manual for ladders, with year door		_	MTL
60-40-9000		> Tube mount for ladders, with rear door ENG. NOTE:		1	IVIIL
		Specify location, ladders to be installed in this tube, complete dimensions of ladders	ers if		
		user supplied	,10 11		
			i		
		Tube through the tank with rear access door to house the 24 two section la			
		80-14-0505, 14' roof ladder 80-14-5510 and 10' attic ladder 80-14-8510. t	1e		
		tubes for the ladders will be separated so they can be removed individually.			
		Door ajar switch required.			
60-41-1015		Pike Pole tube in suction hose tube		2	MTL
00-41-1015		To house the two 80-13-2500 pike poles.		_	IVIIL
		To flouse the two ob-10-2000 pine poles.			
60-41-6001		> Zico hydraulic portable tank rack		1	MTL
		ENG. NOTE:	i		
		Specify mounting location desired.			
		If Portable tank is customer supplied, specify overall dimensions when the tank	s in		
		stored position			
		Located an winds aids for the CO 4F 4000 nortable tools			
		Located on right side for the 80-15-1000 portable tank To be wired so only operable when park brake is engaged.			
		Flashing lights and reflective tape required at front and rear to indicate	anv		
		areas that protrude beyond the body.	ully		
		and an and production and arealy.			
60-41-6010		ZICO PTS switched at rear above tail light	i	1	MTL
		Switch is located on same side as electric rack - right side.			
60-41-6110		Painted plate on exterior of Zico PTS			MTL
60-41-7100		Tread plate on body behind porta tank rack INSTRUMENTATION		1	<i>MTL</i> MTL
70-11-0000		Warning Label on Pump Operator's Panel	i	1	MTL
70-11-0500		Side mount instrument panel		1	MTL
		No gauge or visual display can be higher than 84" above the operator's standi	ng	-	
		position	_		
		Midpoint of any control cannot be higher than 72" above the operator's standi	ng		
		position			
70-11-0600	U	Linkaga controls in left front side compartment UEAT Style		1	
70-11-0000	U	Linkage controls in left front side compartment - HEAT Style SOPT #847		,	
		***Note - Thuemling gauges and controls			
70-11-1500		Stainless steel instrument panels		1	MTL
		No gauge or visual display can be higher than 84" above the operator's standi	ng		
		position			
		Midpoint of any control cannot be higher than 72" above the operator's standing	ng		
		position			
70-11-3200		Colour coded tags		1	MTL
70-11-0200		Tank Manufacturer's capacityt tag/label to be on pump operators panel		•	
		in full view of operator.			
		·			
70-11-4000		Stainless steel side panel hood right side		1	MTL
70-11-4100	_	Stainless steel side panel hood left side		1	MTL
70-11-5100	S	Open storage of pump house		7	MTL
		Lighting required to meet ULC - switched when park brake is set.			
70-11-5200	U	End doors on the dunnage area 70-11-5100		1	
.00200	Ŭ	There will be end doors installed on the dunnage area 70-11-5100 - one at each e	nd		
		of the storage.			
		· ·			
70-11-5500	S	Right side pump access		1	MTL
		No opening dimension less than 18"			

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PART NO	S	DESCRIPTION	QTY	ID
70-11-7500		Heat pan-aluminum	1	
70-11-8000		Heater in pump compartment	1	MTL
		Switch located on pump operators panel.		
	_			
70-20-0500	S	4-1/2" compound gauge - dual face 0-400	2	MTL
		To be within 8" of each other - edge to edge		
		Range to be 0-400 PSI		
70 20 4500		2.4/2" property garage dual foca 0.400	7	MTL
70-20-1500	S	2-1/2" pressure gauge - dual face 0-400		WIL
		***Note - Thuemling gauges and controls Gauge to be no more than 6" from edge of the gauge to the center of the cont	rol	
		Range to be 0-400 PSI	101.	
		Range to be 0-400 PSI		
70-20-2500		Primer control	1	MTL
70-20-2501		Additional Primer control	1	MTL
70-20-3200		FRC Pump Boss Governor Control	1	
70-20-0200		Throttle can be no lower than 42" and no higher than 72" from operator's stand		
		position.	119	
		position.		
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500		Test gauge panel	1	MTL
		Mount below the compound gauges for proper draining		
		g		
70-20-7500		Heat exchanger control valve	1	MTL
70-21-1500	S	Electric Foam Level gauge on pump panel, Class One	1	MTL
		Include access to and room for sender in front of body and back of pump house		
		, i		
70-21-2100		> PTO Hourmeter	1	MTL
		ENG. NOTE:		
		Specify location in shop note		
		Locate in cab console 20-31-7500		
	_			
70-21-5500	S	Readout for Battery Conditioner	1	MTL
		Charger Indicator shall be located on the interior of the cab and viewable f	rom	
		the exterior while standing at ground level, with the driver's door open.		
71-21-4500	c	Chaokay an numn nanal	1	MTL
71-21-4500	S	Speaker on pump panel One external speaker for the 2-way radio will be installed in the pump pa		IVIIL
		wiring for the speaker will have an on/off switch on the centre console.		
		switch will have 12" wire lead left to be used by the fire department ra		
		installer. Speaker wiring will terminate in the centre console.	JIO .	
		motuner. Opeaker wiring will terminate in the contre console.		
		ACCESSORIES	1	MTL
80-11-5000		6" x 10' lightweight suction hose (ea)	2	MTL
		Tube mounted		
80-12-2500		6" barrel strainer	1	MTL
		Shipped loose - not mounted. Customer will mount.		
80-13-0500		Rubber mallet	1	MTL
		Shipped loose - not mounted. Customer will mount.		
			_	
80-13-1200		Clare hose wrenches (double) with holder	2	MTL
		Mounted where room permits - one on left side pump panel, one on right	side	
		pump panel		
00 40 0500		Billion I. Charles I. and Addition	•	1471
80-13-2500		Pike pole, fibreglass handle - 10' long	2	MTL
		Tube mounted		
80-13-4000	S	Ava nick hand fibraglass handle and breaket	1	MTL
00-13-4000	3	Axe, pick head, fibreglass handle and bracket  Customer requested to have the axes shipped loose. As requested by e-mai		IVI I L
		06.03.2019 by Rod Harris.	UII	
		00.00.2013 by Nou Hairis.		
80-14-0505	U	Duo Safety 24' two section extension ladder	1	
33 3333		Stored in tank tunnel.		
1				

10/18/2019 PART NO	S		DESCRIPTION	QT`	Υ	Page 13
80-14-5510	U		Duo Safety 14' roof ladder Stored in tank tunnel.		1	
80-14-8510	U		Duo Safety 10' folding attic ladder Stored in tank tunnel.		1	
80-15-1000	S	<	2000 I gallon portable tank - Husky Stored on PTS rack. ****Bladder color to be Yellow****		1	MTL
80-17-0500	s		10# dry chemical fire extinguisher and mount Customer specified mounting location to be on the tool board in the compartment. Confirmed by e-mail on 06.03.2019 by Rod Harris	L4	1	MTL
80-18-0500	S		SCBA bracket with strap - compt mount Customer specified mounting location to be on the tool board in the compartment. Two (2) brackets on one side and the least bracket on the fi corner of the other side (ahead of the extinguisher 80-17-0500).		3	MTL
80-18-0600			SCBA brkt w/strap - ZICO ULLH - crew cab mount For Officer's seat		1	MTL
80-19-0500			Large folding wheel chock - aluminum (ea) not mounted Shipped loose - not mounted. Customer will mount.		2	MTL
80-20-3000	S		Portable hand light with 12-VDC charger Streamlight Survivor Customer specified mounting location to be the upper portion of the compartment beside the power bar 20-99-05AA. Confirmed by e-mail 06.03.2019 by Rod Harris.		2	MTL
80-99-05AA	U		4" Storz x 2-1/2" female swivel and plug Shipped loose - not mounted. Customer will mount. SOPT #1 - Truck specific P/N 1501814 for the swivel adapter P/N 1500298 for the CP Plug		1	
80-99-10AA	U		Akron direct flange mount for an Apollo lift off monitor Install on monitor pipe 30-44-6520 SOPT #328 - Truck specific See pictures in O:/Metalfabphotos/Dysart ON M19-20468		1	
80-99-15AA	U		5" male NH to 6" NH female adapter (ea) Shipped loose - not mounted. Customer will mount. SOPT #3 - truck specific P/N 1501115		2	
80-99-20AA	U		2.5" x 1.5" reducing caps - chrome plated (ea) Installed on one of the 2-1/2" left side discharges by the fire deprtment. Customer requested to be shipped loose - as confirmed by email on 06.03.2 by Rod Harris SOPT #791 - truck specific P/N 1501280 for the reducing cap P/N 1500281 for the 1-1/2" CP Cap	019	1	